

Title (en)

Adjustable metering servovalve for a fuel injector

Title (de)

Verstellbares Dosierservoventil eines Einspritzventils

Title (fr)

Soupape de dosage asservie réglable pour un injecteur de carburant

Publication

EP 1707797 A1 20061004 (EN)

Application

EP 05110564 A 20051109

Priority

- EP 05425151 A 20050314
- EP 05110564 A 20051109

Abstract (en)

The metering servovalve (7) comprises a valve body (8, 30), an open/close element (45) and an electromagnet (15), and is housed in a casing (2) of the injector (1). The electromagnet (15) actuates a mobile armature (16) for a travel defined by a polar surface (19) of the core (18) of the electromagnet (15). This latter is fixed in the casing (2) by means of a threaded ring nut (40), with the interposition of at least one deformable adjustment shim (48). The ring nut (40) is screwed with a pre-set tightening torque on a thread (46) of the casing (2) so as to bring about an elastic deformation of the adjustment shim (48) and to prevent accidental unscrewing of the ring nut (40). The adjustment shim (48) is constituted by a metal ring with a cross section having a shape chosen between L, C, S, Z, and £.

IPC 8 full level

F02M 59/46 (2006.01)

CPC (source: EP US)

F02M 47/027 (2013.01 - EP US); **F02M 63/0015** (2013.01 - EP US); **F02M 63/0031** (2013.01 - EP US); **F02M 63/0073** (2013.01 - EP US); **F02M 63/008** (2013.01 - EP US)

Citation (search report)

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